Physical Chemistry: Equilibria
CHM 330 Section: 7615, Fall 2011

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Course Hours: Mon and Wed: 8:00 – 10:00 am (6S-232)
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Learning Objectives for CHM330.

- The course introduces various physical principles and their link with chemical phenomena, with primary emphasis on chemical thermodynamics in CHM 330.

- The student will comprehend the three laws of thermodynamics and their applications to chemical processes.

- The student will further learn how to depict thermodynamics principles by using mathematical language.

- The student will apply algebra and calculus to carry out quantitative analysis for chemical thermodynamics problems.

- The student will be able to read and explain the trend in scientific graphics.

- The student will develop critical thinking and problem solving skills.


ISBN – Physical CHEM: 9781429218122
STUDENT SOLUTION GUIDE: 9781429231242

Scientific calculator: recommended
Outlines of CHM 330

Weeks 1-6
Chap. 1 The properties of gases
Chap. 2 The First Law
Chap. 3 The Second Law

Exam I.

Weeks 7-11
Chap. 4 Physical transformation of pure substances
Chap. 5 Simple mixture
Chap. 6 Phase diagram

Exam II.

Weeks 12-14
Chap. 6 Phase diagram (continued)
Chap. 7 Chemical equilibrium & Electrochemistry

Final Exam.

Grading:
Quizzes (take-home and in-class) 22%
Exam 1: 23%
Exam 2: 23%
Final: 32%

Note:
1. Please pay attention to the due date for each homework. Late homework will not be accepted, and your will receive a zero grade per day of being late.
2. Make-up of quizzes and exams is impossible due to the tight schedule during this semester.
3. A scientific calculator is needed for all quizzes and exams.
4. This is a course that requires deep understanding of scientific concepts and extensive mathematical skills for problem solving. Besides constant hard work in keeping up with the course, critical thinking is more important than memorizing! Exercise as many problems in the textbook as you can.

Online resources:
* Please check Blackboard and your email account frequently for any new announcement.
* Lecture notes will be posted on Blackboard before or after the lecture.
* Any attached electronic files will be sent to your e-mail accounts registered in Blackboard.